60



SEQUENCE SUBMISSION

```
SEQ ID NO: 1 is a mouse 312C2 nucleic acid sequence.
           SEQ ID NO: 2 is a mouse 312C2 amino acid sequence.
 5
           SEQ ID NO: 3 is a human 312C2 nucleic acid sequence.
           SEQ ID NO: 4 is a human 312C2 amino acid sequence.
           SEQ ID NO: 5 is a reverse translation sequence.
           SEQ\ID NO: 6 is clone A8 amino acid sequence.
           SEQ NO: 7 is clone A5 amino acid sequence.
10
           SEQ IN NO: 8 is clone G10 amino acid sequence.
                                     SEQUENCE LISTING
15
     (1) GENERAL INFORMATION:
          (i) APPLICANT Gorman, Daniel M.
                          Randall, Troy D.
                          Zlotnik, Albert
20
          (ii) TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related
                  Reagents
         (iii) NUMBER OF SEQUENCES: 9
25
         (iv) CORRESPONDENCE ADMRESS:
                (A) ADDRESSEE: DNAX Research Institute
                (B) STREET: 901 California Avenue
                (C) CITY: Palo Alto
30
                (D) STATE: California
                (E) COUNTRY: USA
                (F) ZIP: 94304-1104
           (v) COMPUTER READABLE FORM:
35
                (A) MEDIUM TYPE: Floppy disk
                (B) COMPUTER: IBM PC compatible
                (C) OPERATING SYSTEM: PC-DOS/MS-DOS
                (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
40
          (vi) CURRENT APPLICATION DATA:
                (A) APPLICATION NUMBER: US Not Vet assigned
                (B) FILING DATE: August 14, 199%
                (C) CLASSIFICATION:
         (vii) PRIOR APPLICATION DATA:
45
                (A) APPLICATION NUMBER: US 60/023,4\(\frac{1}{2}\)9
                (B) FILING DATE: 16-AUG-1996
         (vii) PRIOR APPLICATION DATA:
                (A) APPLICATION NUMBER: US 60/027,901
50
                (B) FILING DATE: 07-OCT-1996
        (viii) ATTORNEY/AGENT INFORMATION:
                (A) NAME: Ching, Edwin P.
                (B) REGISTRATION NUMBER: 34,090
55
                (C) REFERENCE/DOCKET NUMBER: DX0612K1
          (ix) TELECOMMUNICATION INFORMATION:
```

(A) TELEPHONE:

(B) TELEFAX:

	\																
	(2)	INFO	ORMAT	TION	FOR	SEQ	ID N	10:1:									
5	`	(i)	(E	OUENCA) LE S) TY C) SI	ENGTH PE: PRANI	i: 10 nucl EDNE	73 k Leic ESS:	ase acid	pair l	:s							
10		(ii)	MOI														
15		(ix)	(I	ATURE A) NA B) LO O) O	ME/F	ON:	68.										
20		(xi) SEÇ	QUENC	DE DE	ESCRI	PTIC	ON: S	SEQ 1	ID NO):1:						
20	CTC	GAGA!	rcc A	YTTG1	rgcy	GG AA	AAGGG	GAACT	r cci	rgaaz	ATCA	GCCC	SACAC	GAA (GACTO	CAGGAG	60
25	AAG	CACT	ATG Met 1	GGG Gly	GCA Ala	TGG Trp	GCC Ala 5	ATG Met	CTG Leu	TAT Tyr	GGA Gly	GTC Val 10	TCG Ser	ATG Met	CTC Leu	TGT Cys	109
20	GTG Val 15	CTG Leu	GAC Asp	CTA Leu	GGT Gly	CAG Gln 20	CCG Pro	AGT Ser	GTA Val	GTT Val	GAG Glu 25	GAG Glu	CCT Pro	GGC Gly	TGT Cys	GGC Gly 30	157
30	CCT Pro	GGC Gly	AAG Lys	GTT Val	CAG Gln 35	AAC Asn	GGA Gly	AGT Ser	GGC Gly	AAC Asn 40	AAC Asn	ACT Thr	CGC Arg	TGC Cys	TGC Cys 45	AGC Ser	205
35	CTG Leu	TAT Tyr	GCT Ala	CCA Pro 50	GGC Gly	AAG Lys	GAG Glu	GAC Asp	TGŤ Cys 55	CCA Pro	AAA Lys	GAA Glu	AGG Arg	TGC Cys 60	ATA Ile	TGT Cys	253
40	GTC Val	ACA Thr	CCT Pro 65	GAG Glu	TAC Tyr	CAC His	TGT Cys	GGA Gly 70	GAC Asp	CCT	CAG Gln	TGC Cys	AAG Lys 75	ATC Ile	TGC Cys	AAG Lys	301
45	CAC His	TAC Tyr 80	CCC Pro	TGC Cys	CAA Gln	CCA Pro	GGC Gly 85	CAG Gln	AGG Arg	GTG Val	GAG Glu	TCT Ser 90	CAA Gln	GGG Gly	GAT Asp	ATT Ile	349
Ε0	GTG Val 95	TTT Phe	GGC Gly	TTC Phe	CGG Arg	TGT Cys 100	GTT Val	GCC Ala	TGT Cys	GCC Ala	ATG Met 105	GGC	ACC Thr	TTC Phe	TCC Ser	GCA Ala 110	397
50	GGT Gly	CGT Arg	GAC Asp	GGT Gly	CAC His 115	TGC Cys	AGA Arg	CTT Leu	TGG Trp	ACC Thr 120	AAC Asn	TGT Cys	TCT Ser	CAG Gln	TTT Phe 125	GGA Gly	445
55	TTT Phe	CTC Leu	ACC Thr	ATG Met 130	TTC Phe	CCT Pro	GGG Gly	AAC Asn	AAG Lys 135	ACC Thr	CAC His	AAT Asn	GCT Ala	GTG Val 140	TGC Cys	ATC Ile	493
60	CCG Pro	GAG Glu	CCA Pro	CTG Leu	CCC Pro	ACT Thr	GAG Glu	CAA Gln	TAC Tyr	GGC Gly	CAT His	TTG Leu	ACT Thr	GTC Val	ATC \lle	TTC Phe	541

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`	145 150 155	
5	CTG GTC ATG GCT GCA TGC ATT TTC TTC CTA ACC ACA GTC CAG CTC GGC Leu Val Met ala Ala Cys Ile Phe Phe Leu Thr Thr Val Gln Leu Gly 160 165 170	589
10	CTG CAC ATA TGG CAG CTG AGG AGG CAA CAC ATG TGT CCC CGA GAG ACC Leu His Ile Trp Gln Leu Arg Arg Gln His Met Cys Pro Arg Glu Thr 175	637
10	CAG CCA TTC GCG GAG GTG CAG TTG TCA GCT GAG GAT GCT TGC AGC TTC Gln Pro Phe Ala Glu Val Gln Leu Ser Ala Glu Asp Ala Cys Ser Phe 195 200 205	685
15	CAG TTC CCT CAG GAG GAA CGC GGG GAG CAG ACA GAA GAA	· 733
20	CTG GGG GGT CGG TGG CCA TGAGGCCTGG TCTTCCTCTG TGCCCCAAGC Leu Gly Gly Arg Trp Pro 225	781
	CAGACGCTAC AAGACTTGCC CAGCTATACC CTTGGTGAGA GCAGGGGCCA TGCTCTGCAC	841
25	CCTTCCCTGG GCCTGGCCCT GCTCCCCTCA ACAGTGGCGG AAGTGGGTGT ATGAGAGCGG	901
23	TGAGTTACGA TTGGGCCCTA TGGCTGCCTT TCTCATTTGA CAGCTCTGTT GGAGTAGGGT	961
	CTTTGGGCCC ACCAAGAGCA CCACGTTTAG CACAAGATCT TGTACAAGAA TAAATACTTG	1021
30	TTTAGTAACC TGAAAAAAAA AAAAAAAGG GCGGCCGCGG AGGCCGAATT CC	1073
	(2) INFORMATION FOR SEQ ID NO:2:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear	
40	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
45	Met Gly Ala Trp Ala Met Leu Tyr Gly Val Ser Met Leu Cys Val Leu 1 5 10 15	
	Asp Leu Gly Gln Pro Ser Val Val Glu Glu Pro Gly Cys Gly Pro Gly 20 25 30	
50	Lys Val Gln Asn Gly Ser Gly Asn Asn Thr Arg Cys Cys Ser Leu Tyr 35 40 45 Ala Pro Gly Lys Glu Asp Cys Pro Lys Glu Arg Cys Ile Cys Val Thr	
55	Pro Glu Tyr His Cys Gly Asp Pro Gln Cys Lys Ile Cys Lys His Tyr	
<i>J J</i>	65 70 75 80	
60	Pro Cys Gln Pro Gly Gln Arg Val Glu Ser Gln Gly Asp the Val Phe 85 90 95	

	Gl	Phe	Arg	Cys 100	Val	Ala	Cys		Met 105		Thr	Phe	Ser	Ala 110	Gly	Arg		
5	Asp	$g^{f\lambda}$	His 115	Cys	Arg	Leu	Trp	Thr 120	Asn	Cys	Ser	Gln	Phe 125	Gly	Phe	Leu		
	Thr	Met	Phe	Pro	Gly	Asn	Lys 135	Thr	His	Asn	Ala	Val 140	Cys	Ile	Pro	Glu		
10	Pro 145	Leu	Pro	Thr	Glu	Gln 150.	_	Gly	His	Leu	Thr 155	Val	Ile	Phe	Leu	Val 160		
15	Met	Ala	Ala	gys	Ile 165	Phe	Phe	Leu	Thr	Thr 170	Val	Gln	Leu	Gly	Leu 175	His		
13	Ile	Trp	Gln	Leu 180	Arg	Arg	Gln	His	Met 185	Cys	Pro	Arg	Glu	Thr 190	Gln	Pro		
20	Phe	Ala	Glu 195	Val	Glb	Leu	Ser	Ala 200	Glu	Asp	Ala	Cys	Ser 205	Phe	Gln	Phe		
	Pro	Glu 210	Glu	Glu	Arg	G/Λ	Glu 215	Gln	Thr	Glu	Glu	Lys 220	Cys	His	Leu	Gly		
25	Gly 225	Arg	Trp	Pro		`												
	(2)	INFO	ORMA'	NOI	FOR	SEQ	ID	10:3	:									
2.0	` '						,	\										
30		. (1)	(I (I	A) LI 3) T C) S	engti Pe : Prani	HARACH: 10 nucl DEDNI DGY:	006 l leic ESS:	acio sing	pai:	rs								
35		(ii)	MOI	LECUI	LE T	YPE:	cDN	Ą		\							·	
40		(ix)		A) N	AME/I	KEY: ION:		723										
		(xi	SEC	OUEN	CE DI	ESCR:	IPTI	ON: S	SEO :	ID NO	. .							
45						•					_ \							
		GCA Ala																48
50		CTG Leu																96
55		TGC Cys												Asp		CGC Arg		144
60		TGC Cys 50											Tyr					192

5															TTC Phe		240
3															CCC Pro 95		288
10															CAG Gln		336
15															CAC His		384
20	AAA Lys	CCT Pro 130	TGG Trp	ACA Thr	GAC Asp	TGC Cys	ACC Thr 135	CAG Gln	TTC Phe	GGG Gly	TTT Phe	CTC Leu 140	ACT Thr	GTG Val	TTC Phe	CCT Pro	432
25															CCG Pro		480
25	GAG Glu	CCG Pro	CTT Leu	GGG Gly	TGG Trp 165	CTC Leu	ACC Thr	GTC Val	GTC Val	CTC Leu 170	CTG Leu	GCC Ala	GTG Val	GCC Ala	GCC Ala 175	TGC Cys	528
30															CAG Gln		576
35	AGG Arg	AGT Ser	CAG Gln 195	TGC Cys	ATG Met	TGG Trp	CCC Pro	COA Arg 200	GAG Glu	ACC Thr	CAG Gln	CTG Leu	CTG Leu 205	CTG Leu	GAG Glu	GTG Val	624
40								Arg							GAA Glu		672
															CTG Leu	TGG Trp 240	720
45	GTG Val	TGA	GCCT	GGC (CGTC	CTCC	GG G(GCCA	CCGA	C CG	CAGC	CAGC	CCC'	rccc(CAG	,	773
50	GAG	CTCC	CCA,	GGCC	GCAG	GG G	CTCT	GCGT'	r ct	GCTC'	rggg	ecc.	GGCC	CTG (CTCC	CCTGGC	833
	AGC	AGAA	GTG (GGTG	CAGG	AA G	GTGG	CAGT	G AC	CAGC	GCCC	тде	ACCA'	IGC I	AGTT	ceecee	893
55	CCG	CTCT.	AAA (GGAT	CCAA	GC T	TACG'	TACG	C GT	GCAT	GCGA	CGT	ATA	GCT (CTTC'	TATAGT	953
	GTC.	ACCT.	AAA '	TTCA	ATTC.	AC T	GGCC	GTCG'	T TT	raca.	ACGT	CCT	TPAE	GGG .	AAA		1006

\		
\	(i)	SEQUENCE CHARACTERISTICS:
\ .		(A) LENGTH: 241 amino acid:
\		(B) TYPE: amino acid
\ .		(D) TOPOLOGY: linear
\		
\ ((ii)	MOLECULE TYPE: protein
\		-

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Ala\Gln His Gly Ala Met Gly Ala Phe Arg Ala Leu Cys Gly Leu 10 Ala Leu Lau Cys Ala Leu Ser Leu Gly Gln Arg Pro Thr Gly Gly Pro 15 Gly Cys Gly Pro Gly Arg Leu Leu Cly Thr Gly Thr Asp Ala Arg Cys Cys Arg Val His Thr Thr Arg Cys Cys Arg Asp Tyr Pro Gly Glu 20 Glu Cys Cys Ser Clu Trp Asp Cys Met Cys Val Gln Pro Glu Phe His Cys Gly Asp Pro Cys Cys Thr Thr Cys Arg His His Pro Cys Pro Pro 25 Gly Gln Gly Val Gln Ser Gln Gly Lys Phe Ser Phe Gly Phe Gln Cys 100 30 Ile Asp Cys Ala Ser Gly Thr Phe Ser Gly Gly His Glu Gly His Cys 120 Lys Pro Trp Thr Asp Cys That Gln Phe Gly Phe Leu Thr Val Phe Pro 35 130

Gly Asn Lys Thr His Asn Ala Wal Cys Val Pro Gly Ser Pro Pro Ala 155

Glu Pro Leu Gly Trp Leu Thr Val\ Val Leu Leu Ala Val Ala Ala Cys 40

Val Leu Leu Leu Thr Ser Ala Gln Leu Gly Leu His Ile Trp Gln Leu

Arg Ser Gln Cys Met Trp Pro Arg Glu Thr Gln Leu Leu Glu Val 200

Pro Pro Ser Thr Glu Asp Ala Arg Ser Cyt Gln Phe Pro Glu Glu Glu 220 50 210

Arg Gly Glu Arg Ser Ala Glu Glu Lys Gly Arg Leu Gly Asp Leu Trp 230

55 Va1

(2) INFORMATION FOR SEQ ID NO:5:

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5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 723 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ih) MOLECULE TYPE: cDNA	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
15	ATGGCNCARC AYGCNGCNAT GGGNGCNTTY MGNGCNYTNT GYGGNYTNGC NYTNYTNTGY	60
	GCNYTNWSNY TNGGNARMG NCCNACNGGN GGNCCNGGNT GYGGNCCNGG NMGNYTNYTN	120
	YTNGGNACNG GNACNGAXGC NMGNTGYTGY MGNGTNCAYA CNACNMGNTG YTGYMGNGAY	180
20	TAYCCNGGNG ARGARTGYTG YWSNGARTGG GAYTGYATGT GYGTNCARCC NGARTTYCAY	240
	TGYGGNGAYC CNTGYTGYAC NACNTGYMGN CAYCAYCCNT GYCCNCCNGG NCARGGNGTN	300
25	CARWSNCARG GNAARTTYWS NTTYGGNTTY CARTGYATHG AYTGYGCNWS NGGNACNTTY	360
23	WSNGGNGGNC AYGARGGNCA YTGYAARCCN TGGACNGAYT GYACNCARTT YGGNTTYYTN	420
	ACNGTNTTYC CNGGNAAYAA RACNCAYAAY GCNGTNTGYG TNCCNGGNWS NCCNCCNGCN	480
30	GARCCNYTNG GNTGGYTNAC NGTNGTNYTN YTNGCNGTNG CNGCNTGYGT NYTNYTNYTN	540
	ACNWSNGCNC ARYTNGGNYT NCAYATHTGG CARYTNMGNW SNCARTGYAT GTGGCCNMGN	600
2.5	GARACNCARY TNYTNYTNGA RGTNCCNCCN WSNACNGARG AYGCNMGNWS NTGYCARTTY	660
35	CCNGARGARG ARMGNGGNGA RMGNWSNGCN GARGARAARG GNMGNYTNGG NGAYYTNTGG	720
	GTN	723
40	(2) INFORMATION FOR SEQ ID NO:6:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: peptide	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
55	Met Gly Ala Phe Arg Ala Leu Cys Gly Leu Ala Leu Leu Cys Ala Leu 1 5 10	
60	Ser Leu Gly Gln Arg Pro Thr Gly Gly Pro Gly Cys Gly Pro Gly Arg 20 25 30	

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Leu Leu Leu Gly Thr Gly Thr Asp Ala Arg Cys Cys Arg Val His Thr Thr Arg Cys Cys Arg Asp Tyr Pro Gly Glu Glu Cys Cys Ser Glu Trp . 5 Asp Cys Met Cys Val Gln Pro Glu Phe His Cys Gly Asp Pro Cys Cys Thr Thr\Cys Arg His His Pro Cys Pro Pro Gly Gln Gly Val Gln Ser 10 Gln Gly Ly& Phe Ser Phe Gly Phe Gln Cys Ile Asp Cys Ala Ser Gly 15 Thr Phe Ser Gly Gly His Glu Gly His Cys Lys Pro Trp Thr Asp Cys Thr Gln Phe Gly Phe Leu Thr Val Phe Pro Gly Asn Lys Thr His Asn 20 130 Ala Val Cys Val Pro &ly Ser Pro Pro Ala Glu Pro Leu Gly Trp Leu Thr Val Val Leu Leu Ala \Val Ala Ala Cys Val Leu Leu Thr Ser 25 170 Ala Gln Leu Gly Leu His Ile\Trp Gln Leu Arg Lys Thr Gln Leu Leu 185 30 Leu Glu Val Pro Pro Ser Thr Glu Asp Ala Arg Ser Cys Gln Phe Pro 200 Glu Glu Glu Arg Gly Glu Arg Ser Ala Glu Glu Lys Gly Arg Leu Gly 220 35 215 Asp Leu Trp Val 40 (2) INFORMATION FOR SEQ ID NO:7: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 232 amino acids (B) TYPE: amino acid 45 (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: peptide 50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7: Met Gly Ala Phe Arg Ala Leu Cys Gly Leu Ala Leu Leu Cys Ala Leu 55 Ser Leu Gly Gln Arg Pro Thr Gly Gly Pro Gly Cys Gly Pro Gly Arg 25

	•																
		Leu	Leu	Leu 35	Gly	Thr	Gly	Thr	Asp 40	Ala	Arg	Cys	Cys	Arg 45	Val	His	Thr
5	` \	Thr	Arg 50	Cys	Cys	Arg	Asp	Tyr 55	Pro	Gly	Glu	Glu	Cys 60	Cys	Ser	Glu	Trp
	ı	Asp 65	Cys	Met	Cys	Val	Gln 70	Pro	Glu	Phe	His	Cys 75	Gly	Asp	Pro	Cys	Cys 80
10		Thr	Thi	Cys	Arg	His 85	His	Pro	Cys	Pro	Pro 90	Gly	Gln	Gly	Val	Gln 95	Ser
15		Gln	Gly	Γλε	Ser 100	Trp	Arg	Cys	Leu	Trp 105	Glu	Ser	Thr	Gln	Ala 110	Arg	Gly
		Ser	Thr	Arg 115	Ala	Arg	Gly	Arg	Ala 120	Arg	Gly	His	Arg	Cys 125	Pro	Ala	Arg
20		Thr	Cys 130	Gly	Val	Trp	Gly	Pro 135	Glu	Ser	Cys	Glu	Ala 140	Gly	Gln	Ala	Arg
		Pro 145	Cys	Ser	Gly	Thr	Thr 150	Gly	His	Glu	Ala	Leu 155	Gly	Val	Ser	Cys	Pro 160
25		Cys	Phe	Leu	Ser	Leu 165	Gly	Phe	Ser	Ile	Gln 170	His	Glu	Gly	Cys	Glu 175	Asn
20		Pro	Ala	Gly	Arg 180	Trp	Gly	Arg	Val	Pro 185	Gly	Ala	Val	Trp	Leu 190	Ser	Gly
30		Pro	Gly	His 195	Pro	Ser	Cys	Leu	Ser 200	Ser	Pro	His	Thr	Glu 205	Arg	Ala	Cys
35		Pro	Val 210	Pro	Pro	Gly	Val	Leu 215	Ser	$g_{1\lambda}$	Ala	Trp	Gly 220	Cys	Thr	Leu	Phe
		Trp 225	Lys	Glu	Gln	Leu	Lys 230	Ser	Ser	`							
40	(2)	[NFO	RMAT	ION I	FOR :	SEQ :	ID N	3:8:			. \	\					
		(.i)	(Ã	UENCI	NGTH	: 31	1 am	ino (S							
45			-) TYI) STI) TOI	RAND	EDNE:		sing	le								
		(ii)	MOL	ECULI	E TY	PE:]	pept	ide					`				
50						٠									\		
		(xi)	SEQ	UENC!	E DE	SCRI	PTIO	N: S	EQ I	D NO	:8:						
55		Met 1	Gly	Ala	Phe	Arg 5	Ala	Leu	Cys	Gly	Leu 10	Ala	Leu	Leu	Cys	Ala 15	Leu
60		Ser	Leu	Gly	Gln 20	Arg	Pro	Thr	Gly	Gly 25	Pro	Gly	Cys	Gly	Pro 30	Gly	Arg
																	\

			-													
	Leu	Leu	Leu 35	Gly	Thr	Gly	Thr	Asp 40	Ala	Arg	Cys	Cys	Arg 45	Val	His	Thr
5	Thr	Arg 50	Cys	Cys	Arg	-Asp	Tyr 55	Pro	Gly	Glu	Glu	Cys 60	Cys	Ser	Glu	Trp
	Asp 65	Cys	Met	Cys	Val	Gln 70	Pro	Glu	Phe	His	Cys 75	Gly	Aṣp	Pro	Cys	Cys 80
10	Thr	The	Cys	Arg	His 85	His	Pro	Cys	Pro	Pro 90	Gly	Gln	Gly	Val	Gln 95	Ser
15	Gln	Gly	Lys	Phe 100	Ser	Phe	Gly	Phe	Gln 105	Cys	Ile	Asp	Cys	Ala 110	Ser	Gly
13	Thr	Phe	Ser 115	q _{1y}	Gly	His	Glu	Gly 120	His	Cys	Lys	Pro	Trp 125	Thr	Asp	Cys
20	Thr	Gln 130	Phe	Gly.	Phe	Leu	Thr 135	Val	Phe	Pro	Gly	Asn 140	Lys	Thr	His	Asn
	Ala 145	Val	Cys	Va1	Pro	Gly 150	Ser	Pro	Pro	Ala	Glu 155	Pro	Leu	Gly	Trp	Leu 160
25	Thr	Val	Val	Leu	Leu 165	Ala	Val	Ala	Ala	Cys 170	Val	Leu	Leu	Leu	Thr 175	Ser
30	Ala	Gln	Leu	Gly 180	Leu	His	Ile	Trp	Gln 185	Leu	Arg	Ser	Gln	Cys 190	Met	Trp
30	Pro	Arg	Gly 195	Leu	Ser	Gln	Pro	21y 200	Ala	Gly	Arg	Trp	Glu 205	His	Gly	Cys
35	Leu	Leu 210		Val	Ala	Pro	Leu 215	Gln	Arg	Pro	Ser	Cys 220		Trp	Arg	Cys
	Arg 225	Arg	Arg	Pro	Lys	Thr 230	Pro	Glu	Ala	Ala	Ser 235	Ser	Pro	Arg	Lys	Ser 240
40	Gly	Ala	Ser	Asp	Arg 245	Gln	Arg	Arg	Arg	G1y 250	Gly	Trp	Glu	Thr	Cys 255	Gly
45	Суз	: Glu	Pro	Gly 260	Arg	Pro	Pro	Gly	Pro 265	Pro	The	Ala	Ala	Ser 270	Pro	Ser
43	Pro	Gly	Ala 275	Pro	Gln	Ala	Ala	Gly 280	Ala	Leu	Arg	Ser	Ala 285	Leu	Gly	Arg
50	Ala	Leu 290		Pro	Trp	Gln	Gln 295	Lys	Trp	Val	Gln	Glu 300		Gly	Ser	Asp
	Glr 305	a Arg	Pro		Pro	Cys 310	Ser						`			
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